## CLAIMS

- 1. A magnetic recording apparatus comprising:
- a disk-shaped information recording medium on which periodic physical changes providing changes of reflectivity are formed;
  - a light source which outputs a light beam;
- a diffraction element which receives the beam outputted from the light source and generates three beams;
- a light-converging optical system which converges the beams generated by the diffraction element on the information recording medium as a microspot;
- a photodetection means having three photosensitive parts which receive beams reflected and diffracted by the information recording medium and again transmitted in the aperture of the light-converging optical system, and which output signals in accordance with the quantities of received light beams, respectively;
- a signal processing means which processes the signals outputted from the photodetection means to output a tracking error signal;
- a driving means which receives the tracking error signal outputted from the signal processing means, and determines a position of the beam on a desired track;
  - a magnetic head which records information on the

information recording medium, or reproduces or deletes information from the information recording medium;

wherein the signal processing means includes a cancel means which cancels crosstalk that occurs between the signals outputted from three photosensitive parts of the photodetection means.

- 2. The magnetic recording apparatus of Claim 1 wherein the signal processing means cancels crosstalk which occurs between signals by the cancel means, and detects a tracking error signal with reduced error.
- 3. The magnetic recording apparatus of Claim 1 wherein the cancel means cancels crosstalk from at least one signal among the three signals outputted from the photodetection means to the other signal.
- 4. The magnetic recording apparatus of Claim I wherein the cancel means comprises:

first and second voltage-dividing means which perform voltage division on an output signal from a first photosensitive part of the photodetection means;

a first differential arithmetic means which performs differential calculation on an output signal from a second photosensitive part of the photodetection means and an output

signal from the first voltage-dividing means;

a second differential arithmetic means which performs differential calculation on an output signal from a third photosensitive part of the photodetection means and an output signal from the second voltage-dividing means.

- 5. The magnetic recording apparatus of Claim 4 wherein the first and second voltage-dividing means have voltage-dividing ratios approximately equal to the ratio at which the output signal from the first photosensitive part crosstalks to the output signals from the second and third photosensitive parts.
- 6. The magnetic recording apparatus of Claim 4 wherein the first and second voltage-dividing means comprise resistors.